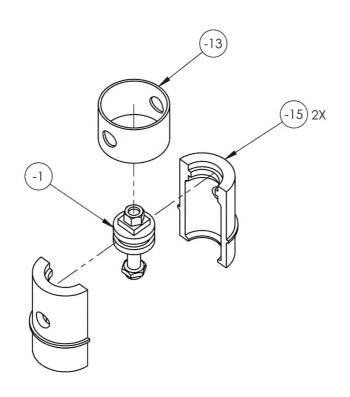
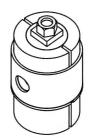
	revisions								
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED				
1		released for production.	1/13/2016	DPD	JAG				
2	16-0111	-9, -11, -13 ADDED HEAT TREAT RC 28-3415 CH'D DIMS WAS 1.34 IS 1.31, WAS (.031) IS (.06).	8/18/2016	DEW	SM				





NOTE: REF. EUROCOPTER T/N: 332A93-3225-01.

HAFTING LOCK WASHER

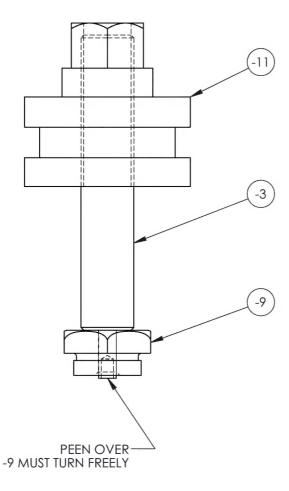
									TITLE	
ASSY QTY	ASSY QTY	В/О	Part #	UNIT	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.	ŀ	HAFT
	V/							_	DWG NO.	RI
	Х		-1	1	BOLT ASSY			2		171
X	1		-3		THREADED ROD WELDMENT			3	MAT'L	
1			-5		THREADED ROD	STEEL	M14 X 1.5mm X 300mm (MCMASTER-CARR #98861A550) MODIFIED	4	HEAT TREAT FINISH	
1			-7		SPECIAL NUT	4140/4142		E	SPEC	
	1		-9		NUT	4140/4142		6	DRAWN BY:	DUER
	1		-11		PULLER	4140/4142		7	CHECKED:	CLO
			-13	1	RING	4140/4142		8	OPPS APPR:	ANDE
			-15	2	HALF SHELL	4140/4142		9	QA APPR: APPROVED:	LIND
ASSY	ASSY							+		GILB
-3	-1								SCALE	1:4

RBE332A93-3225-01

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
.XXX ± .005 FRACTIONS ± 1/8
.XX ± .01 ANGLES ± .5°
.X ± .11 SURFACES = 125/

SCALE 1:4 DATE 1/12/2016 SHEET 1 OF 9

		REVISIONS			
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED





**BOLT ASSY** 



TITLE

SPEC

HAFTING LOCK WASHER

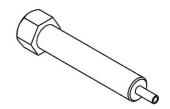
DWG NO. RBE332A93-3225-01-1

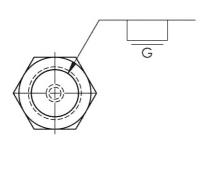
MAT'L UNLESS OTHERWISE SPECIFIED SURFACES = 125 1. BREAK ALL SHARP EDGES .015 x 45 'OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 DRAWN BY: DUERFELDT

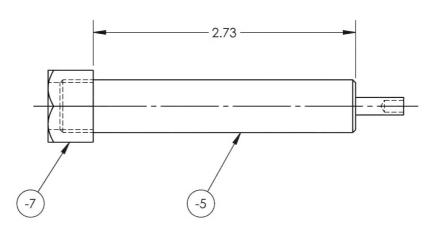
CHECKED: CLOUGH OPPS APPR: ANDERSON QA APPR: USED ON MODEL

LINDSAY APPROVED: GILBERT AS332 DATE 1/12/2016 SCALE SHEET 2 OF 9 1:1

		REVISIONS			
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED







## DART

TITLE

HAFTING LOCK WASHER

DWG NO.

RBE332A93-3225-01-3

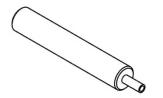
<sup>REV</sup>2

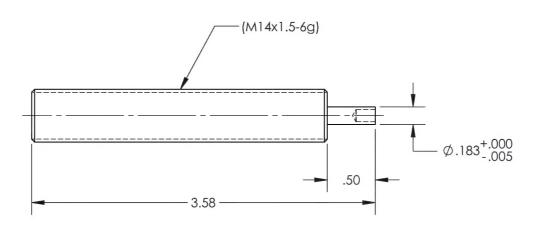
	IVDE	0021	.,	OZZO	010	_
MAT'L					S OTHERWISE SPECIF	
HEAT TREAT				.XXX ± .010		:5
	PLATE			.XX ± .03	ANGLES ±1° SURFACES = 1	25/
SPEC ASTM	1 B633 TYPE	ISC 2		1. BREAK AL	L SHARP EDGES	V
DRAWN BY:	DUERFE	ELDT		.015 x 45° C	OR .015R NAL LIMITS APPLY	
CHECKED:	CLOUG	H		AFTER PLA	ATING	
OPPS APPR:	ANDERS	SON		ASME Y14.	T DIM AND TOL PER 5M-2009	
QA APPR:	LINDSA	Y			USED ON MODEL	
APPROVED:	GILBEF	₹T			AS332	
SCALE	1.1	DATE	1/1	2/2016	SHEET 3 OF	· Q

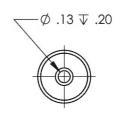
(-3)

THREADED ROD WELDMENT

		REVISIONS			
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED









TITLE

## HAFTING LOCK WASHER

DWG NO.

RBE332A93-3225-01-5

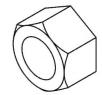
REV 2

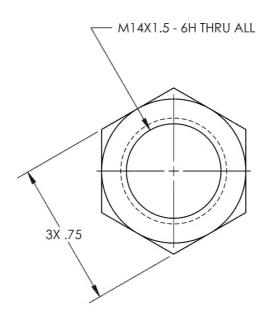
	KRE	33 <i>ZF</i>	17	3-3223-	01-5	2
MAT'L STEEL	-				S OTHERWISE SPECIF NSIONS ARE IN INCHE	
HEAT TREAT FINISH SEE -2				.XXX ± .005	FRACTIONS ± 1/8	.3
OLL -	OLL -5 WILDWILLIAM				ANGLES ±.5° SURFACES = 1:	25/
SPEC				1. BREAK AL	L SHARP EDGES	7
DRAWN BY:	DUERFE	LDT		.015 x 45° C	OR .015R NAL LIMITS APPLY	
CHECKED:	CLOUG	Н		AFTER PLA	TING	
OPPS APPR:	ANDERS	SON		ASME Y14.	T DIM AND TOL PER 5M-2009	
QA APPR:	LINDSA	·Υ			USED ON MODEL	
APPROVED:	GILBEF	RT			AS332	
SCALE	1:1	DATE	1/1	12/2016	SHEET 4 OF	9

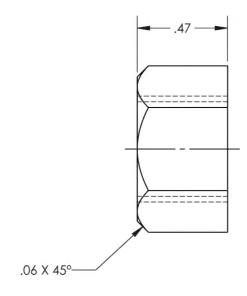
(-5)

THREADED ROD

		REVISIONS			
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED









HAFTING LOCK WASHER

DWG NO.

DDE220 A 02 200E 01 7

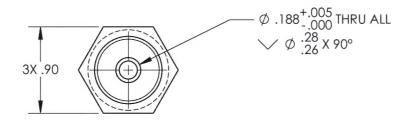
REV

	RRE	332 <i>F</i>	193	3-3225-	01-/	2
MAT'L 4140/4	4142				S OTHERWISE SPECIF NSIONS ARE IN INCHE FRACTIONS ± 1/8	
	3 WELDMEN	Т		.XX ± .005		25/
SPEC				1. BREAK AL	L SHARP EDGES	$\checkmark$
DRAWN BY:	DUERFE	LDT		.015 x 45° (	OR .015R NAL LIMITS APPLY	
CHECKED:	CLOUG	Н		AFTER PLA	ATING	
OPPS APPR:	ANDERS	SON		3. INTERPRE ASME Y14.	T DIM AND TOL PER 5M-2009	
QA APPR:	LINDSA	Υ			USED ON MODEL	
APPROVED:	GILBEF	RT			AS332	
SCALE	2:1	DATE	1/1	12/2016	SHEET 5 OF	9

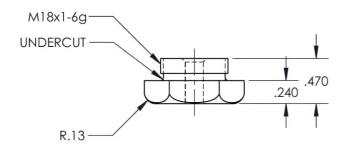


SPECIAL NUT

	REVISIONS									
REV	REV ECR DESCRIPTION				APPROVED					
2	16-0111	-9 ADDED HEAT TREAT RC 28-34.	8/18/2016	DEW	SM					









TITLE

HAFTING LOCK WASHER

DWG NO.

RBE332A93-3225-01-9

2

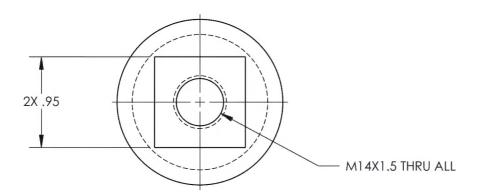
		_				_
MAT'L 4140/4	142				S OTHERWISE SPECIF	
HEAT RC 28-	-34			.XXX ± .005		:5
FINISH ZINC F	PLATE			.XX ± .01	ANGLES ±.5° SURFACES = 1	25/
SPEC ASTM	B633 TYPE	SC 2		1. BREAK AL	L SHARP EDGES	V
DRAWN BY:	DUERFE	LDT		.015 x 45° C	OR .015R NAL LIMITS APPLY	
CHECKED:	CLOUG	Н		AFTER PLA	ATING	
OPPS APPR:	ANDERS	SON		ASME Y14.	T DIM AND TOL PER 5M-2009	
QA APPR:	LINDSA	·Υ			USED ON MODEL	
APPROVED:	GILBEF	RT			AS332	
SCALE	1:1	DATE	1/1	12/2016	SHEET 6 OF	9

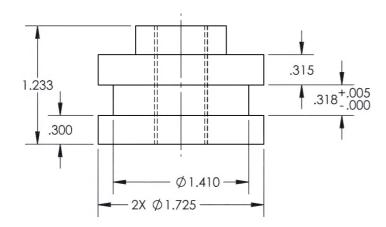
(-9)

NUT

	revisions								
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED				
2	16-0111	-11 ADDED HEAT TREAT RC 28-34.	8/18/2016	DEW	SM				









**PULLER** 

## DART

TITLE

## HAFTING LOCK WASHER

DWG NO.

RBE332A93-3225-01-11

MAT'L 4140/4142
HEAT RC 28-34
FINISH ZINC PLATE
SPEC ASTM B633 TYPE I SC 2
DRAWN BY: DUERFELDT
CHECKED: CLOUGH
OPPS APPR: ANDERSON

.X ± .1 SURFACES = 125/
1. BREAK ALL SHARP EDGES
.015 x 45° OR .015R
2. DIMENSIONAL LIMITS APPLY
AFTER PLATING
3. INTERPRET DIM AND TOL PER
ASME Y14.5M-2009

CKED: CLOUGH
AFTER PLATING
3. INTERPRET DIM AND TOL PE
ASME Y14.5M-2009

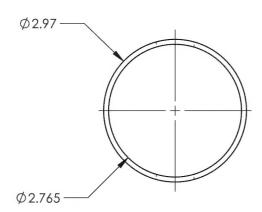
 QA APPR:
 LINDSAY
 USED ON MODEL

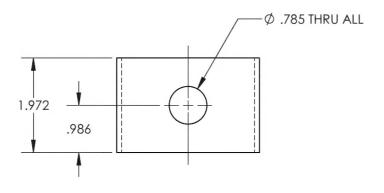
 APPROVED:
 GILBERT
 AS332

 SCALE
 1:1
 DATE
 1/12/2016
 SHEET 7 OF 9

REVISIONS								
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED			
2	16-0111	-13 ADDED HEAT TREAT RC 28-34.	8/18/2016	DEW	SM			





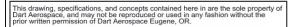


HAFTING LOCK WASHER

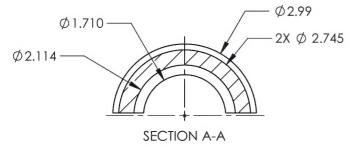
DWG NO.

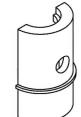
DWG NO.	RBE3	32A	93	-3225-(	01-13	2		
WAT'L 4140/4	142			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8				
REAT RC 28-	-34							
211101	PLATE			.XX ± .01 ANGLES ±.5° .X ± .1 SURFACES = 12				
SPEC ASTM B633 TYPE I SC 2				1. BREAK ALL SHARP EDGES				
DRAWN BY:	DUERFELDT			.015 x 45° OR .015R  - 2. DIMENSIONAL LIMITS APPLY AFTER PLATING				
CHECKED:	CLOUGH							
OPPS APPR:	ANDERSON		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009					
QA APPR:	LINDSAY		USED ON MODEL			_		
APPROVED:	GILBERT		AS332			_		
SCALE	1:2	DATE	1/1	2/2016	SHEET 8 OF 9	9		

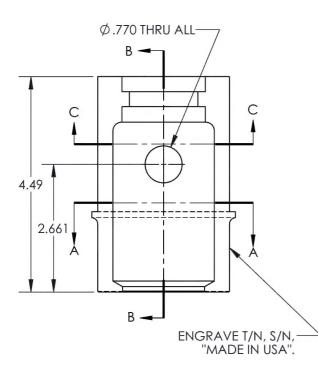
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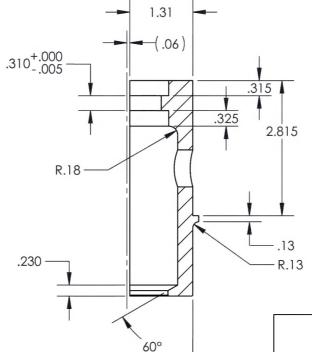


REVISIONS REVISIONS							
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED		
2	16-0111 -15 CH'D DIMS WAS 1.34 IS 1.31, WAS (.031) IS (.06).		8/18/2016	DEW	SM		









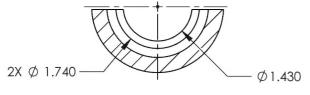
SECTION B-B



HAFTING LOCK WASHER

DWG NO.	
	RBE332A93-3225-01-15

RBE332A93-3225-01-15						<sup>REV</sup>		
MAT'L 4140/4	MAT'L 4140/4142				UNLESS OTHERWISE SPECIFIED			
HEAT 40-45 RC				DIMENSIONS ARE IN INCHES  .XXX ± .005 FRACTIONS ± 1/8				
FINISH ZINC PLATE				.XX ± .01	5/			
SPEC ASTM B633 TYPE I SC 2				1. BREAK ALL SHARP EDGES				
DRAWN BY:	LDT		.015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY					
CHECKED:	CLOUGH		AFTER PLATING					
OPPS APPR:	ANDERSON		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009					
QA APPR:	LINDSAY		USED ON MODEL					
APPROVED:	GILBEF	BERT		AS332				
SCALE	1:2	DATE	1/1	12/2016	SHEET 9 OF	9		



SECTION C-C

(-15)

HALF SHELL